



Service/Product Provider

Baldor Electric Company

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Business: Electrical Equipment

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Industrial Partner

PepsiCo / Frito-Lay

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Business: Food Processing

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Baldor and PepsiCo team to install premium efficiency motors capturing energy savings

Project Scope

Baldor led a team that surveyed the older motors at PepsiCo's Frito-Lay plant in Kirkwood, NY in order to develop a strategy for replacing the old inefficient motors with new premium motors. In addition, new capital equipment for the ongoing plant upgrade was specified to be built with the Baldor SSE stainless steel NEMA Premium® motors that were identified as replacements.

Project Summary

After conducting the survey, Baldor provided a line of NEMA Premium® efficient three-phase stainless steel motors designed for washdown duty to replace 17 older inefficient motors. Besides offering efficiency gains yielding energy savings, the motors were designed as "food safe" and provided a service life that is longer than the motors they replaced.

- **Energy Savings**
Over 60,000 kWh of energy savings by improving efficiency from 85% to 92% for the 17 motors
- **Investment**
\$10,000 (approximate investment to generate the savings)
- **Financial Return**
<1.5 year simple payback
- **Other Benefits**
Stainless steel motors do not rust or have epoxy paint that can flake off from high pressure cleaning. Additionally, the SSE motors are designed to ensure no food contamination and a longer life. Baldor educates PepsiCo divisions and suppliers on proper motor management.

Monitoring & Verifying Energy Savings

Frito-Lay has a proprietary Profiler software tool that tracks energy and water usage by the plant. This tool was used to verify the savings.

Distinguishing Value

Baldor custom designed equipment to meet PepsiCo's needs for a product with broad applicability. Baldor also facilitated a larger teaming effort to upgrade similar equipment throughout PepsiCo's organization. This project is an extension of a strong partnership between Baldor and PepsiCo that has developed over many years. Baldor has provided training and technical support to PepsiCo associates and its suppliers on motor efficiency and the benefits of taking a systematic approach to managing motor inventories. Baldor's professionalism and customer service were integral to the decision to partner.